		TRANSMITTAL LETTER TO	O THE UNITED STATES	ATTORNEY'S DOCKET NO.					
		DESIGNATED/ELECTED	0056986-000003						
	C	CONCERNING A SUBMISSI	U.S. APPLICATION No. (If known)						
				10/582,196					
IN	I ERN.	ATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED					
T17		PCT/KR2004/00303	23 November 2004	15 December 2003					
		F INVENTION MUTANT CONTAINING MUTA	NT GENES RELATED WITH TRYPT	OPHAN BIOSYNTHESIS AND					
		ICTION METHOD OF TRYPTO		OF TIAN BIOCHTTILLOIG AND					
		ANT(S) FOR DO/EO/US							
PA	ARK,	Young-hoon, et al.							
Ap	plicant	herewith submits to the United States I	Designated/Elected Office (DO/EO/US) the following	owing items and other information:					
1.		This is a FIRST submission of item	ns concerning a submission under 35 U.S	s.C. 371.					
2.	\boxtimes	This is a SECOND or SUBSEQUE	NT submission of items concerning a sul	omission under 35 U.S.C. 371.					
			n national examination procedures (35 U.						
3.		include items (5), (6), (9) and (21)		4					
4.	\boxtimes	The US has been elected (Article	·						
5.		A copy of the International Applica	tion as filed (35 U.S.C. 371(c)(2))						
		a. is attached hereto (requir	ed only if not communicated by the Interr	national Bureau).					
		b. \square has been communicated	by the International Bureau.						
		c. \square is not required, as the ap	plication was filed in the United States Re	eceiving Office (RO/US).					
6.		An English language translation of	the International Application as filed (35	U.S.C. 371(c)(2))					
		a. is attached hereto.							
		b. has been previously subr	mitted under 35 U.S.C. 154(d)(4).						
7.		Amendments to the claims of the I	nternational Application under PCT Articl	e 19 (35 U.S.C. 371(c)(3))					
		a. are attached hereto (requ	ired only if not communicated by the Inte	rnational Bureau).					
		b. have been communicated	d by the International Bureau.						
		c. have not been made; how	wever, the time limit for making such ame	ndments has NOT expired.					
		d. have not been made and	will not be made.						
8.		An English language translation of	f the amendments to the claims under PC	T Article 19 (35 U.S.C. 371(c)(3)).					
9.		An oath or declaration of the inver							
		An English language translation of the appears of the International Proliminary Examination Penart under							
10	. 🗆	PCT Article 36 (35 U.S.C. 371(c)(5)).	•					
		s 11 to 20 below concern document(s							
11	. 🗆	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.							
12	. 🗆	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.							
13	3. A preliminary amendment.								
14	. 🗆	An Application Data Sheet under 37 CFR 1.76.							
15	. 🗆	A substitute specification.							
16	. 🗆	☐ A power of attorney and/or change of address letter.							
17	. 🗆	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.							
18	. 🗆	A second copy of the published International Application under 35 U.S.C. 154(d)(4).							
19	. 🗆	A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).							
	. 🖾	Other items or information. Amendment in Resource to Nation Haday 27 OFR 4 924 925; Statement to Compart							

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U.S. APPLICATION NO. (If known)	INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NO.
10/582,196	PCT/KR2004/00303	0056986-000003

The following fees have been submitted: CALCULATIONS PTO USE ONLY											
21. 🗌	11. Basic National fee (37 CFR 1.492(a)) (1631) \$ 310						\$	0			
22. 🗌											
	If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of							visions of			
	PCT Article 33(1)-(4) (1643) \$ 0 All other situations (1633) \$ 210						-				
23. 🗌		-		1.402/b))			(103	33) \$ 210	\$	0	-
23. 🔲			37 CFR online			orelim	inary exan	nination			
	If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) (1640) \$ 0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority (1641) \$ 100 International Search Report prepared by an ISA other than the US and provided										
	All othe		•	ously com	nmunicated to the US by	the IB	•	(2) \$ 410 (32) \$ 510			
			21, 22 AN	ND 23 =			(103	, 4 J I U	\$ \$	0 0	
					s and drawings filed in pa	aper o	ver 100 sh	eets	3		
	(exclud	ling so ter pro	equence ogram lis	listing in ting in ar	compliance with 37 CFR electronic medium) (37	1.821 CFR 1	(c) or (e) o 1.492(j)).	or			
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Total clai	ims		0	- 20 =	0	x \$ 5	0 (1615)		\$	0	
Independ	dent Clair	ns	0	- 3 =	0	 	10 (1614)		\$	0	
MULTIPL	LE DEPE	NDEN	IT CLAIM(S) (if appli	icable)	+\$3	70 (1616)		\$	0	
TOTAL (OF ABO	/E CA	LCULATION	ONS =		I			\$	0	
	Applicant	claim	s small en	tity status.	See 37 CFR 1.27. Fees a	bove a	re reduced	by 1/2		0	
SUBTOT	TAL =								\$	0	
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					edit card. Form PTO-203						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.											
SEND ALL CORRESPONDENCE TO:											
	Customer No 21839 SIGNATURE								1	\	
P.O. Box 1404 Alexandria, VA 22313-1404											
703 836						Brian	P. O'Shau	ighness\		,	32747
Date: Ju	ne 23. 2	800			·	NAME				REGIS	STRATION NO.

ATTORNEY'S DOCKET NO. TRANSMITTAL LETTER TO THE UNITED STATES 0056986-000003 DESIGNATED/ELECTED OFFICE (DO/EO/US) U.S. APPLICATION No. (If known) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** 10/582.196 PRIORITY DATE CLAIMED INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PCT/KR2004/00303 23 November 2004 15 December 2003 TITLE OF INVENTION E.COLI MUTANT CONTAINING MUTANT GENES RELATED WITH TRYPTOPHAN BIOSYNTHESIS AND PRODUCTION METHOD OF TRYPTOPHAN BY USING THE SAME APPLICANT(S) FOR DO/EO/US PARK, Young-hoon, et al. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must 3. include items (5), (6), (9) and (21) indicated below. 4. 🛛 The US has been elected (Article 31). 5. \square A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). b. 🔲 has been communicated by the International Bureau. c. 🔲 is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)) a. 🔲 is attached hereto. b. 🗌 has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. \square are attached hereto (required only if not communicated by the International Bureau). b. 🔲 have been communicated by the International Bureau. c. 🔲 have not been made; however, the time limit for making such amendments has NOT expired. d. 🔲 have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 8. □ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under 10. 🔲 PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is 12. included. 13. A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. 15. 🔲 A substitute specification. 16. 🔲 A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. 18. 🔲 A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. □ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).

20.

Other items or information: Amendment in Response to Notice Under 37 CFR 1.821-825; Statement to Support

Filing and Submission in Accordance with 37 CFR 1.821-825; paper copy of Sequence Listing; diskette

U.S. APPLICATION NO. (If known)	INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NO.		
10/582,196	PCT/KR2004/00303	0056986-000003		

The following fees have been submitted: CALCULATIONS PTO USE ONLY									
21. 🗌	Basic N	Vation	nal fee (3	31) \$ 310	\$ 0				
22. 🗌	Examir	nation	fee (37						
	If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions o								
		PCT Article 33(1)-(4) (1643) \$ 0							
	All othe	er situ	ations			(16	33) \$ 210	\$ 0	
23. 🗌	Search	fee (37 CFR	1.492(b))					
					VUS or the international p				
	report p 33(1)-(-		red by IF	'EA/US ir	ndicates all claims satisfy		CT Article 1640) \$ 0		
			37 CFR	1.445(a)(2)) has been paid on the				
	to the l	JSPT	O as an	Internatio	onal Searching Authority	(16	41) \$ 100		
					repared by an ISA other to repared by the US by t		provided 42) \$ 410		
	All othe		~	Jusiy Con	indificated to the OO by	•	32) \$ 510	\$ 0	
			21, 22 Al	ND 23 =				\$ 0	
					s and drawings filed in pa	aper over 100 s	heets	\$ 0	
	(exclud	ling s	equence	listing in	compliance with 37 CFR	1.821(c) or (e)			
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					nent of the national stage (3)		e oaun or	\$ 0	
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Total cla	ims		0	- 20 =	0	x \$ 50 (1615)		\$ 0	
Independ	dent Clair	ns	0	- 3 =	0	x \$ 210 (1614)		\$ 0	
			T CLAIM	(S) (if appli	icable)	+ \$ 370 (1616)		\$ 0	
			LCULATI			,		\$ 0	
					. See 37 CFR 1.27. Fees al	hove are reduced	hv 1/2		
SUBTO		Clann		ary status.				0	
		\$ 130	(1618) fo	r furnishin	g the English translation late	r than 30 months	from the	\$ 0	
earliest c	claimed p	riority	date (37 C	CFR 1.492	(i)).		+	0	
	NATIONA							\$ 0	
					(37 CFR 1.21(h)). The assig 3, 3.31).\$ 40 per property	nment must be a	ccompanied +	0	
	FEES EN							\$ 0	
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a. 🗌	A check	in th	e amoun	t of	to cover the	above fees is e	nclosed.		
					ount No. 02-4800 in the a	amount of <u>\$</u> to	cover the a	bove fees. A dupl	icate copy of
_			enclosed. sioner is		uthorized to charge any a	additional fees v	hich may b	e required, or cred	lit anv
	c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 02-4800. A duplicate copy of this sheet is enclosed.								
d. Charge to credit card. Form PTO-2038 is attached.									
					nit under 37 CFR 1.495 ore the International Ap				CFR 1.137(a) or
SEND A	SEND ALL CORRESPONDENCE TO:							Zanda Ja	
Customer No 21839 SIGNATURE									
P.O. Box 1404 Alexandria, VA 22313-1404									
703 836						Brian P. O'Sha	ughnessy		32747
Date: June 23, 2008 NAME							REGI	STRATION NO.	

Date: <u>June 23, 2008</u>



United States Patent and Trademark Office

0056986-000003

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS O. Box 1450 lexandria, Virginia 22313-1450 www.napto.gov

U.S. APPLICATION NUMBER NO.

FIRST NAMED APPLICANT

ATTY. DOCKET NO.

10/582,196

Young-Hoon PARK

93874.00201

FOX ROTHSCHILD LLP PRINCETON PIKE CORPORATE CENTER 997 LENOX DRIVE, BUILDING #3 LAWRENCEVILLE, NJ 08648

21839

INTERNATIONAL APPLICATION NO.

PCT/KR04/03030

I.A. FILING DATE 11/23/2004

PRIORITY DATE 12/15/2003

CONFIRMATION NO. 4004 **371 FORMALITIES LETTER**

Date Mailed: 04/22/2008

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark. Office as an Elected Office (37 CFR 1.495):

Priority Document

Copy of the International Application filed on 06/09/2006

Copy of the International Search Report filed on 06/09/2006

• U.S. Basic National Fees filed on 06/09/2006

Priority Documents filed on 06/09/2006

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- · Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

- \$130 Surcharge.
- This application clearly fails to comply with the requirements of 37 CFR, 1.821-1.825, Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR. 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000). Applicant must provide an initial computer readable form (CRF) copy of the "Sequence Listing", an initial paper or compact disc copy of the "Sequence Listing", as well as an amendment specifically directing its entry into the application. Applicant must also provide a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If applicant desires the sequence

Missing Part Sue: 6/22/08 SEG. LISTING Due: 6/22/08

BUCHANAN INGERSOLL & ROONEY PO

FORM PCT/DO/EO/905 (371 Formalities Notice)

listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821(e) may be submitted in lieu of a new CRF.

• A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000). Applicant must provide an initial computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If applicant desires the sequence listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821(e) may be submitted in lieu of a new CRF.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. https://sportal.uspto.gov/authenticate/Authenticate/LocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

SHAKEEL AHMED		
Telephone: (703) 308-91	140 EXT 208	·